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Papd March 12 1824

An  
Essay  
on  
Dysentery  
by  
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of  
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W. E. H

Dean

1814 March 12

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Dear

Remarks on the epidemic Dysentery, which prevailed in some of the western parts of Pennsylvania, during the fall of 1819, & 1820.

The disease which has been selected, as the subject of the following Thesis, was in general, so formidable in its attacks, and so various in its symptoms, that I enter with diffidence on its history and treatment. Nor is my diffidence diminished by the consideration that I was an eye witness to its ravages, for this very circumstance causes me still more sensibly to feel my incapacity to do it justice. May I not however claim indulgence on the ground, that my observations are the result of personal experience? Such is the fact during the prevalence of the disease, the number of those attacked with it was so great, that the Physician with whom I was pursuing my studies could not possibly



alliance to all who called on him. Many cases  
consequently devolved on me, and from these I  
was enabled to collect the materials of my inaug-  
ural dissertation. If the manner in which I  
have thrown them together be considered imper-  
fect, I can only plead as my apology the in-  
disputable truth, that matters of fact are  
more valuable in a plain dress, than speculation  
adorned with the richest ornaments of fancy.

Symptoms.

The disease came on in some cases with  
the usual symptoms of fever as shivering,  
languor, listlessness, sighing, yawning, small  
accelerated pulse, which were speedily succeeded  
by great heat and thirst and occasionally by  
considerable anxiety, difficulty of breathing and  
sickness at stomach, griping, tenderness, tender-  
ness of the abdomen and frequent evacuations  
of mucus and bloody matter, the latter symptoms

*[The page contains approximately 25 lines of extremely faint, illegible handwriting, likely bleed-through from the reverse side. The text is too light to transcribe accurately.]*

characterizing the disease in its fully formed state. Often however, the affection of the bowels was the first symptom, though not generally, as I have seen several patients evidently attacked with the disease, who complained of nothing more for several days, than a great degree of languor, attended with pains in the head and loins, without any disturbance whatever in the alimentary canal, except a distaste for food, and on examining the pulse it was found considerably quickened, in some cases full and hard, and in others small, hard, and frequent, accompanied generally with a white tongue, sometimes a yellowish streak in its centre. In some instances the patient complained of constipation, and occasional colic pains, about the umbilical region, a few days previous to the appearance of the dysenteric symptoms presenting themselves, and on examination, the tongue in all such cases was considerably furred, and the pulse



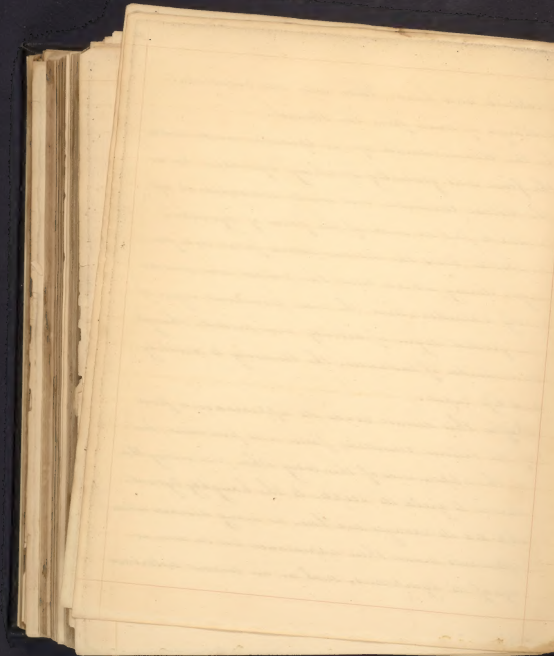


quickened and hard. There were also occasional discharges of wind from the stomach.

In the commencement of the epidemic under notice, the fever was, generally speaking, synochus, but as the disease continued, and winter advanced, it appeared to put on more of the form of typhocha.

In several cases the disease proved fatal in a few days, during which time the patient was considerably exhausted, and the most prominent signs of the greatest degree of debility were present, though in a number of instances, the tendency to debility was less rapid.

Before this disease made its appearance, a fever of the bilious remittent form was prevalent, but on the appearance of this, every other prevailing then, seemed to yield its sceptre to the haughty tyrant. *Nix dix* its ravages and here, as many diseases which afterwards made their appearance put on more or less of its symptoms, such as an evident disturbance



the alimentary canal, occasioning Cholera Infantum, bilious Colic, and Cholera Infantum.

The duration of the disease was various, whilst some patients recovered in a few days, others were cured several weeks; and there were a few cases when the sufferers dragged out a miserable existence, and finally perished at the end of two or three weeks.

The symptoms just described are sufficient to warrant the appellations we have given to the disease, it was clearly dysentery, the pain, the gripes, pain and bloody stools which were present distinguishing it from diarrhoea, the only form of disease with which it could possibly be confounded.

Diagnosis.

A great degree of fever attended with much prostration of strength, violent tenesmus, a colic of the bowels, a very offensive and acrid sweat, as likewise a great increase of the veins of vision,



attended with a peculiar sharpness of consciousness  
and a modulation of the pupils were in many instances  
the forerunners of disposition. In children convulsions  
often broke asunder their fibres to the world,  
and carried them off, for even when the first sym-  
ptom seemed to be getting better, a violent convul-  
sion seized, and put a period to their existence. A  
moderate degree of perspiration, the throbbings of the  
arteries, frequent and of a more numerous appearance,  
a gradual expiration of urine more frequent, as likewise  
a universal and moderate insensibility, with a return  
of warmth to the feet and hands, were the harbingers  
of returning health.

#### Interdiction.

It has been remarked that dysentery occurs  
chiefly in the summer, and that it is occasioned  
by cold or moisture succeeding quickly to intense heat,  
a great drought, such was the case with the dis-  
ease under consideration. The months of July and



August were extremely warm during the days, and  
 the evenings, comparatively speaking, were exceedingly  
 cold. The coverings of winter nights were necessary, forming  
 a great many springs which  
 were thought insupportable most of, and in many  
 places it was necessary to drive cattle a considerable  
 distance to water. In what manner these  
 circumstances operated to produce the disease, it  
 is not easy to determine, though I am inclined  
 to the belief that their effects were attributable  
 to the sudden checking of the discharge from the  
 skin, and the accumulation to the intestines  
 consequent on such suppression. In this I was  
 so far from being that I adopted the pathology given  
 of Dysentery by Sydenham, and that with him  
 took in the disease as a *febris enterica*. There  
 were my views when I was called to treat these  
 cases from which my remarks are now drawn.  
 I believe that the operation of the intestines was





a more secondary signification, it in the language  
of the great physician just named, nothing more  
than an effort of nature to expel morbid matter.  
In the type of the disease seems not for a moment  
hesitate. It was decidedly inflammatory and not  
puscular, a fever, a cold, in the preceding heat  
and, which was consequently, transient, and  
fully justified by the success which crowned  
my efforts.

### Treatment.

I began with the lancet and employed it with  
the greatest freedom and boldness, even to scars  
where the appearance of the patient, the colorings  
of the hands and feet, the stertor, the throat like  
purple, and the muscular rigidity might have  
suggested, to a superstitious observer, to have forbore  
it. I pushed the antiphlogistic regimen to its  
extreme and with success. He thus affords  
the outline of the exemplary plan of treatment.



It is not my intention to lay down rules for the  
 universal management of Dysentery. I confine my-  
 self to my own experience, and must therefore  
 declare myself a decided advocate, in the treated  
 in the disease as it was presented to me, at the  
 same time I do not hesitate to name that case  
 may occur, in which, from peculiarity of season,  
 constitution, climate and other circumstances, it  
 would not only be found useless, but even dan-  
 gerous. I repeat, that as far as my observations  
 extend, it arrested the progress of the disease,  
 and it appeared to do so by allaying fever, pro-  
 =fusing nutrition, and promoting growth & disposition.  
 When it was not resorted to, I have every reason  
 to believe that the patients died from the effects  
 of violent inflammation. Whether this opinion would  
 have been confirmed by post mortem examinations  
 or not, I am unable to determine, as we unfortunately  
 was prevented of pursuing my researches after the



death of the patients.

### Coughs

In the commencement of the disease were of great severity, that is on the first or second day. Those which I perceived were hoarse & grating & of a peculiar sound. They relaxed various and of the stomach, and sometimes operated on the bowels. After the third day they were improved, and appeared in many cases to hurry the death of the patients. In one instance this was believed to be the case in a very striking degree. A young woman who was attacked with the disease sent for the physician, who not being at home, was succeeded in by her friend & some of a clergyman, who acted occasionally the part of a physician. He perceived an emetic of Tart. Emetic which produces such debilitating effects as to kill the patient. It was given on the third day after the commencement of the disease and



from that time his issues and pite virgine color,  
and his death took place in twelve hours after.

### Cathartics

These were particularly useful in this disease. They  
relieved pain during their operation on the bowels,  
and brought away large quantities of undigested food,  
so effectually and then remove griping and tenesmus  
that in a majority of instances, I ordered purgatives  
every day. These I usually employed were the Sweet  
Olea and Pulvis Salapæ. I generally gave of the  
Sul Minus Hydragrye ten grains, and of the  
pulvis Salapæ half a drachm, and repeated it three  
times a week, for any on the intermediate days the  
following caution prescriptions.

Take of Sulphate of Magnesia one ounce.

Scum leaves half an ounce. Mix  
and infuse in eight ounces of boiling water for  
one hour, strain and add two grains of Tartarica  
acidum. A table spoonfull may be taken every





which flows. This operates in the bowels, and at the same time, produces a determination to the surface. When this failed in producing the desired effect, gave the *Sic Mureto* of Mercury twelve grains, *Poudre de Precipue* twelve grains, *Poudre de Rhum* one grain and a half, to be divided into 12 equal parts, one to be taken every third time. This kept the bowels in a laxative state, produced an abstraction of humors, and acted on the capillary vessels of the skin by exciting a moderate desquamation.

Warm bathing was highly useful, as the patient was in a majority of instances without thereby it not only allayed pain, but, for cause a determination to the surface, after the bathing, some counteracting medicines were administered. These successfully employed were the above mentioned which generally brought on



a plentiful discharge, in case the first application of the warm bath was ineffectual, I ordered it to be repeated after two or three hours and the evacuating medicines continued as before. I generally found the warm bath most effectual, after two or more bleedings, when the pulse had fallen or rather its tension abated.

#### *Opium*

Given in the commencement of the disease, seemed injurious, by increasing fear, and preventing an easy discharge of the bowels, & faces, they alluvated pain for a short time, but when this effect went off, the patients were much exhausted and the symptoms aggravated. But in the latter stages of the disease, when the pulse was reduced, and the bowels thoroughly evacuated, they were of the greatest utility by procuring rest and sleep, especially in those patients, who were much disturbed, during the night by the frequency of the cramps. I generally mixed the grains at bed time in combination with two of Antimonial powder.



## Blisters.

These were effectual remedies in many cases, especially, when the patient complained of excruciating pain, with tenderness of the abdomen on pressure, and when the action was just restored by the former remedies. I generally raised a large blister over the abdomen, and when taken off, directed to be applied again in a few hours.

Emollient injections, as the decoction of Marsh, of *Reyn.* <sup>sea.</sup> in the proportion of half a pint of ether, with the addition of fifty drops of Tincture of Opium, and administered at night procured great relief, and calmed irritation of the intestines.

Sometimes the disease degenerated into a chronic form, and was very troublesome to cure. I generally found that relief was obtained by the following medicines viz. Sulphate of Zinc and Sulphate of Alum. with opiates at night, and applying a flannel roller over the abdomen, with friction. In many



instances it was necessary that the gums should be slightly affected with Mercury before the disease given. The following prescription was given, during the administration of the Mercury.

Take of Logwood one ounce  
Colombo root two anches

Orange peel three anches. mix, and infuse in one quart of boiling water. a wine glassfull may be taken three times a day. In patients much debilitated by the disease, towards a teaspoonfull of Brandy occasionally.

With this treatment I seldom found myself fail in combating the disease, and though there were some fatal cases, I cannot but think that the number would have been infinitely greater, under any other mode of management. But one point was remains to be noticed, and though this should have been placed under the head of Pathology, we have chosen to refer it to the close of our remarks, because it is rather of a

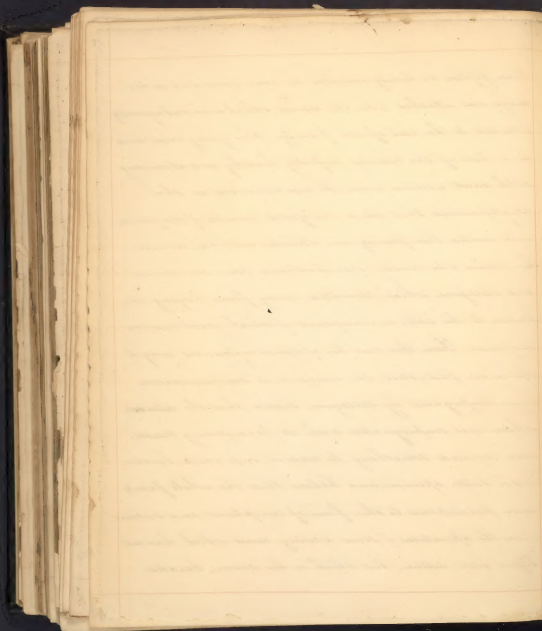




character. than practical character we refer to the  
 contagious or non-contagious nature of the disease. Bullen  
 has defined Syphilis, Syphilis contagiosa, syphilitica  
 syphilitica, venerea vel sanguinolenta, rotunda, pharyngea  
 foribus ulcibus, tumida, lues. In the first clause  
 of his definition he has taken dogmatically made  
 the history of syphilis a chief character of the con-  
 plaint, and though I am not prepared to deny the justice  
 of doing so, I must beg permission to express some doubts  
 on the subject. It is true that in other parts we appeared  
 to be generally sufficient to justify the title of its contagious  
 nature, a case of this kind would seem to be proved to  
 which my remarks refer. That being not be accused of  
 withholding any facts material to throw light on the  
 subject in question I will briefly relate one of these.  
 A young man being sent for the physician, to visit his  
 sister, residing under Anson's Hall, showed him into  
 the sickly part of the country. He did not stay longer in  
 the house when the physician was then practising



than fifteen or twenty minutes, he went home, and in two days was attacked with the disease which was subsequently extended to the rest of the family. This young man lived in a part of the country perfectly healthy and abounding with most excellent water. It was remarked in that neighbourhood that all, or the greater number of the persons who visited this family were attacked with the disease. An alarm was thereby spread abroad that the disease was contagious, which prevented many from paying attention to the sick, in consequence of which great numbers suffered. From this case two opposite inferences may be drawn viz. first, that the disease was communicated and propagated by contagion, second that the atmosphere was impregnated with its predisposing cause, and required something to excite it into action. I incline to the latter opinion, and believe that the whole family were predisposed to this form of complaint, and sickened from the operation of some exciting cause which had not before been active, but which on his return, kindled



the latent spark into a flame. Whether this opinion be correct, is not however a matter of much moment, the business of our profession is to discriminate closely between the varying symptoms of disease, to act promptly and energetically, and to relate faithfully the facts as they are <sup>presented</sup> to us. This I have endeavoured to do, and if I have failed in my attempt, I shall still retain the satisfaction arising from the consciousness of having, at least, made an effort to perform my duty.

